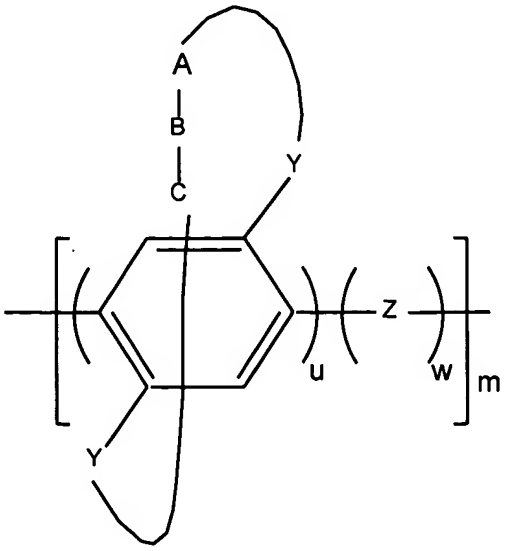
## CLAIM AMENDMENTS

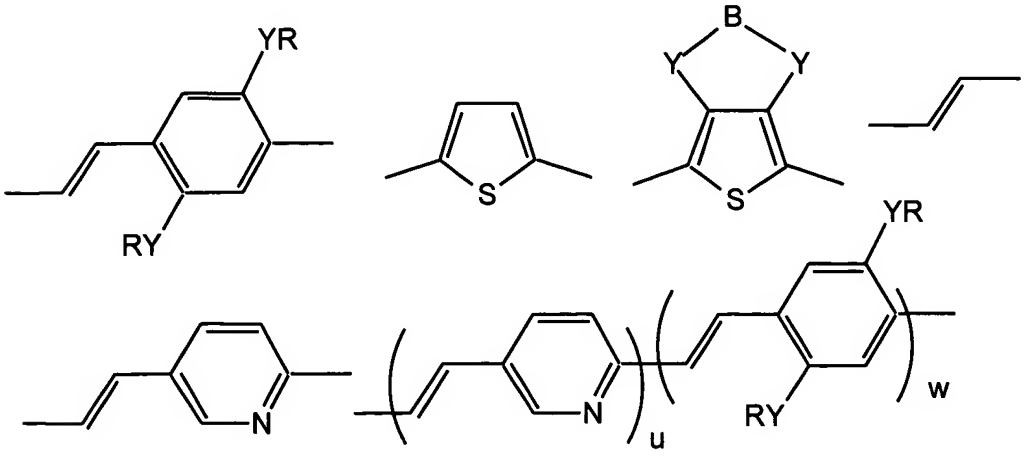
1. (Withdrawn) A light emitting polymeric material said light emitting polymeric material capable of producing electroluminescence upon being provided with a flow of electrons, said light emitting polymeric material comprising:

a plurality of polymeric chains comprising polymeric chains each having substituent moieties of sufficient number and size and extending from said polymeric chain and about a substantial portion of the circumference about said polymer chain so as to maintain said polymeric chains in a sufficiently deaggregated state, so as to substantially prevent the redshifting of said electroluminescence and the lowering of light emission efficiency of said electroluminescence.

2. (Withdrawn) A light emitting polymeric material according to claim 1 comprising polymeric chains selected from the group consisting of alternating and random copolymers, having the structure:



wherein m is the degree of polymerization; Y is selected from the group consisting of - $CH_2$, O, S, CO and $NR_2$ wherein R is an alkyl group containing 1 to 16 carbon atoms; wherein A and C are independently selected from the group consisting of $(CH_2)_n$, $(CH_2CH_2O)_n$, $(CH_2\ CH_2O)_nNR$; wherein R is an alkyl group containing 1 to 16 carbon atoms, and aryl groups having 6 to 14 carbon atoms; B is selected from the group consisting of $(CH_2)_n$, aryl groups having 6 to 14 carbon atoms, and calixarenes having 18 to 200 carbon atoms; wherein u may be of a value independently selected from the group 1 to 6, inclusive; wherein w may be of a value independently selected from the group 1 to 6, inclusive; wherein n may be of a value independently selected from the group 0 to 6, inclusive; and wherein Z may be a structure selected from the group consisting of :




wherein R is an alkyl group containing 1 to 16 carbon atoms; wherein Y is selected from the group consisting of - $CH_2$, O, S, CO and $NR_2$ wherein R is an alkyl group containing

1 to 16 carbon atoms; B is selected from the group consisting of $(CH_2)_n$, aryl groups having 6 to 14 carbon atoms, and calixarene having 18 to 200 carbon atoms; wherein u may be of a value independently selected from the group 1 to 6, inclusive; and wherein w may be of a value independently selected from the group 1 to 6, inclusive.

3. (Withdrawn) A light emitting polymeric material according to claim 1 wherein said polymeric material is further provided with a layer of an electron blocking polymer.

4. (Withdrawn) A light emitting polymeric material according to claim 3 wherein said electron blocking polymer is selected from the group consisting of poly(vinylcarbazole).

5. (Withdrawn) A light emitting device, said device comprising a light emitting polymeric material according to claim 1, and a source of electrical current so as to supply said electron transporting polymer with a flow of electrons.

6. (Withdrawn) A light emitting device, said device comprising a light emitting polymeric material according to claim 1, and a source of electrical current so as to supply said electron transporting polymer with a flow of electrons, said device selected from the group consisting of single layer, bilayer and multi-layer light emitting devices.

7. (Previously presented) A light emitting polymeric material, said light emitting polymeric material capable of producing electroluminescence upon being provided with a flow of electrons, said light emitting polymeric material comprising:

a plurality of rotaxanes each comprising a polymeric chain having at least one ring extending about the circumference of said polymer chain so as to maintain said rotaxanes in a sufficiently deaggregated state, so as to substantially prevent the redshifting of said electroluminescence and the lowering of light emission efficiency of said electroluminescence.

8. (Previously presented) A light emitting polymeric material according to claim 7 wherein said light emitting polymeric material is further provided with a layer of an electron blocking polymer.

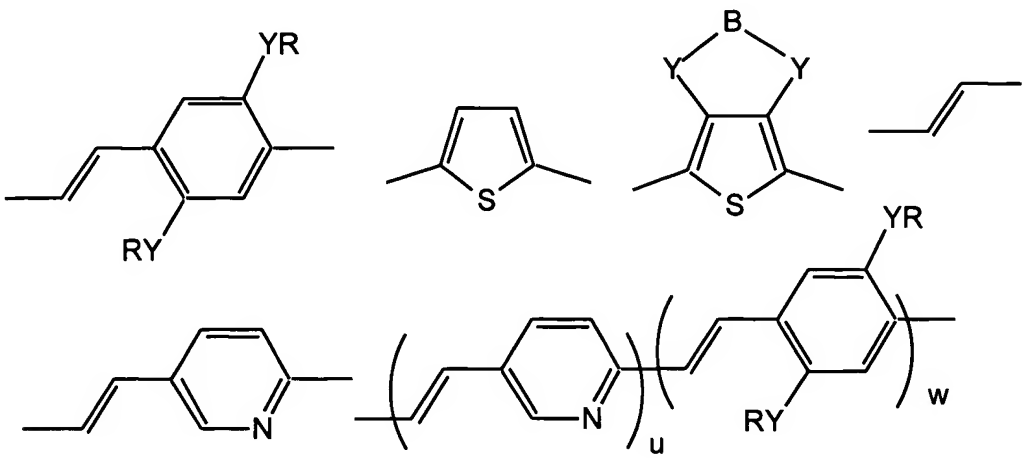
9. (Previously presented) A light emitting polymeric material according to claim 8 wherein said electron blocking polymer is poly(vinylcarbazole).

10. (Original) A light emitting device, said device comprising a light emitting polymeric material according to claim 7, and a source of electrical current so as to supply said electron transporting polymer with a flow of electrons.

11. (Withdrawn) A light emitting device, said light emitting device comprising a layer of light emitting polymeric material according to claim 1 wherein said layer of light emitting polymeric material is between a first polymeric layer and a second polymeric layer, wherein said first polymeric layer comprises a material selected from the group consisting of semi-conductive and conductive polymers and wherein said second polymeric layer comprises a material selected from the group consisting of semi-

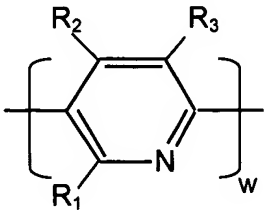
conductive and conductive polymers.

12. (Previously presented) The light emitting polymeric material according to claim 7, wherein at least one said polymeric chain is selected from the group consisting of alternating and random copolymers having at least one structure selected from the group consisting of:

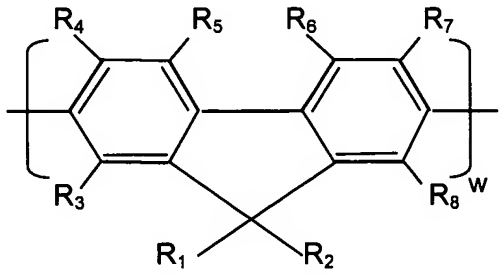



wherein R is an alkyl group containing 1 to 16 carbon atoms; wherein Y is selected from the group consisting of - $CH_2$, O, S, CO and $NR_2$ wherein R is an alkyl group containing 1 to 16 carbon atoms; B is selected from the group consisting of $(CH_2)_n$, aryl groups having 6 to 14 carbon atoms, and calixarene having 18 to 200 carbon atoms; wherein u may be of a value independently selected from the group 1 to 6, inclusive; and wherein w may be of a value independently selected from the group 1 to 6, inclusive.

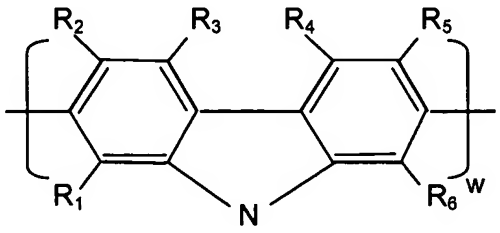
13. (Previously presented) The light emitting polymeric material according to claim 7, wherein at least one said polymeric chain is selected from the group consisting of alternating and random copolymers having at least one structure selected from the group consisting of:



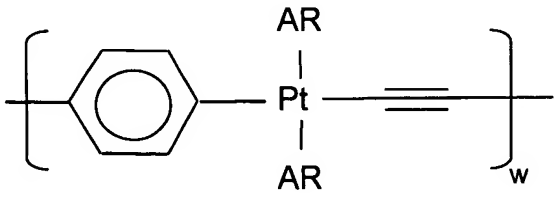

wherein $R_1$, $R_2$, and $R_3$ are independently selected from the group consisting of hydrogen, alkyl groups, alkoxy groups, aromatic groups, and $N(R)_2$ where R is an alkyl group comprising from 1 to 16 carbon atoms, and wherein w is a value from 1 to about 100;



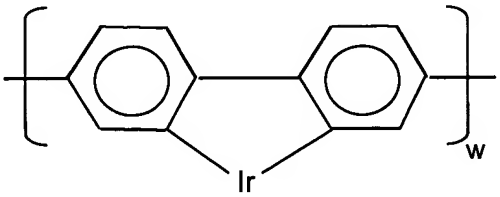

wherein $R_1$ and $R_2$ are each independently selected from the group consisting of hydrogen, alkyl groups, alkoxy groups, aromatic groups, spiroflourenes, and $N(R)_2$ where R is an alkyl group comprising from 1 to 16 carbon atoms, wherein $R_3$ through $R_8$ are each independently selected from the group consisting of hydrogen, alkyl groups, and alkoxy groups, aromatic groups, and $N(R)_2$ and wherein w is a value from 1 to about 100;



wherein $R_1 - R_6$ are each independently selected from the group consisting of hydrogen, alkyl groups, and alkoxy groups, and wherein w is a value from 1 to about 100;

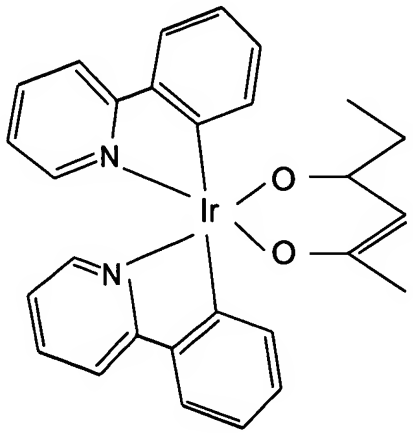



wherein AR is an aromatic group and w is a value from 1 to about 100; and

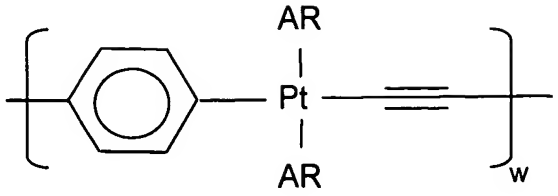



wherein w is a value from 1 to about 100.

14. (Previously presented) The light emitting polymeric material according to claim 7, wherein at least one said ring is selected from the group consisting of: cyclodextrins, cyclophanes, rings comprising



, rings comprising




wherein AR is an aromatic group and w is a value from 1 to about 100, rings comprising pyridine groups, and rings comprising quinoline groups.

15. (Previously presented) The light emitting polymeric material according to claim 7, wherein said polymeric chain of said rotaxane is not covalently bonded to said ring of said rotaxane.

16. (Previously presented) A light emitting device, said light emitting device comprising a layer of light emitting polymeric material according to claim 7 wherein said layer of light emitting polymeric material is between a first polymeric layer and a second polymeric layer, wherein said first polymeric layer comprises a material selected from the group consisting of semi-conductive and conductive polymers and wherein said second polymeric layer comprises a material selected from the group consisting of semi-conductive and conductive polymers.